Cluster Statement		Standard	Keep or Propose Change	Change: Removed, Re-written, Broken Up	Quality Standard s Rule #	Reason for Proposed Change
Write and interpret numerical expression	5.OA.1	5.OA.1 Use and explain parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.	change	rewritten	#3	To focus on the numerical understanding of the expression versus the process.
Write and interpret numerical expression	5.OA.2	5.OA.2 Write simple expressions that record calculations with numbers to represent real world problems, and interpret numerical expressions without evaluating them (For example, express the	change	rewritten	#3	To focus on the numerical understanding of the expression versus the process.
Analyze patterns and relationship		5.OA.3 Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and	change	rewritten	#3	Clarifiying that the idea of this standard is the algebraeic relationship between the two patterns.
Understand the place value system.	5.NBT. 1	5.NBT.1 Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.	keep			
Understand the place value system.	5.NBT. 2	5.NBT.2 Explain and apply patterns in the number of zeros of the product when multiplying a number by powers of 10. and Explain and apply patterns in the placement of the decimal point with respect to the values of the digits in the product or the	Change	rewritten	#3	We felt the Louisiana wording was clearer and focused on understanding and applying.
Understand the place value system.	5.NBT. 3	5.NBT.3 Read, write, and compare decimals to thousandths.3a. Read and write decimals to thousandths using base-ten numerals, number names, and expanded	keep			
Understand the place value	4	5.NBT.4 Use place value understanding to round decimals to any place.	keep			
	5.NBT. 5	5.NBT.5 Fluently multiply multi-digit whole numbers using an algorithm, including but not limited to the standard algorithm.	need vertical conversat			We want to ask the group about the wording "standard algorithm"

Perform	5.NBT.	5.NBT.6 Find whole-number quotients of whole	change	rewritten	#3	At this level, if a fifth grade can explain in
		numbers with up to four-digit dividends and two-digit	J			words without an illustration, that is
with multi-		divisors, using strategies based on place value, the				acceptable. We wanted other strategies
digit whole		properties of operations, and/or the relationship				based on place value to keep options for
numbers		between multiplication and division. Illustrate and				students.
and with		Explain the calculation by using equations,				
decimals to		rectangular arrays, illustrations, or area models, or				
Perform	5.NBT.	5.NBT.7 Add, subtract, multiply, and divide	change	rewritten	#3	"Relate the strategy to a written method"
-	7	decimals to hundredths, using concrete models or				and "explain the reasoning" seemed
with multi-		drawings and strategies based on place value,				redundant
digit whole		properties of operations, and/or the relationship				
numbers		between addition and subtraction; relate the				
and with		strategy to a written method and explain the				
decimals to. Use		5.NF.1 Add and subtract fractions with unlike	change	rewritten	#3	We felt that the intent of this was to let
equivalent		denominators (including mixed numbers) by	onango	TO WHATON	,, 0	teachers know that students do not need
fractions as		replacing given fractions with equivalent fractionsin				to simplify at the end, so we tried to
a strategy		such a way as to produce an equivalent sum or				clarify the last sentence.
to add and		difference of fractions with a like denominatorsd				·
subtract		denominator. For example $\frac{2}{3} + \frac{5}{4} = \frac{8}{12} + \frac{15}{12}$				
	5.NF.2	5.NF.2 a.Solve word problems involving addition and	change	broken up	#1	this standard has two separate ideas, so
equivalent		subtraction of fractions referring to the same whole,				we broke it into a and b
fractions as		including cases of unlike denominators, e.g., by				
a strategy		using visual fraction models or equations to				
to add and		represent the problem. b.Use benchmark fractions				
subtract		and number sense of fractions to estimate mentally				
fractions.		and assess the reasonableness of answers. For				
A	E NIE O	example recognize an incorrect result 2/5 + 1/2 =	Lana			
		5.NF.3 Interpret a fraction as division of the	keep			
extend		numerator by the denominator ($a/b = a \div b$). Solve				
previous		word problems involving division of whole numbers				
understand		leading to answers in the form of fractions or mixed				
ings of		numbers, e.g., by using visual fraction models or equations to represent the problem. For example,				
multiplicati on and		interpret 3/4 as the result of dividing 3 by 4, noting				
Apply and		5.NF.4 Apply and extend previous understandings of	koon			
extend		multiplication to multiply a fraction or whole number	veeh			
previous		by a fraction.				
understand		4a. Interpret the product (a/b) × q as a parts of a				
unuersianu		Ta. Interpret the product (a/b) x q as a parts of a				

Apply and	5 NE 5	5.NF.5 Interpret multiplication as scaling (resizing),	keep			
extend		, , , , , , , , , , , , , , , , , , , ,	кеер			
previous		by: 5a. Comparing the size of a product to the size of				
•		one factor on the basis of the size of the other factor,				
understand		•				
ings of		without performing the indicated multiplication.				
multiplicati		5b. Explaining why multiplying a given number by a				
on and		fraction greater than 1 results in a product greater				
division to		than the given number (recognizing multiplication by				
multiply		whole numbers greater than 1 as a familiar case);				
and divide		explaining why multiplying a given number by a				
fractions.		fraction less than 1 results in a product smaller than				
		the given number; and relating the principle of				
		fraction equivalence $a/b = (n \times a)/(n \times b)$ to the effect of				
		multiplying a/b by 1.				
Apply and		5.NF.6 Solve real world problems involving	keep			
extend		multiplication of fractions and mixed numbers, e.g.,				
previous		by using visual fraction models or equations to				
understand		represent the problem.				
Apply and	5.NF.7	5.NF.7 Apply and extend previous understandings of	Keep			
extend		division to divide unit fractions by whole numbers and	·			
previous		whole numbers by unit fractions. *See Note				
understand		7a. Interpret division of a unit fraction by a non-zero				
Convert		5.MD.1 Convert among different-sized	Change	rewritten	#3	The wording from Tennessee clarifies
like		standardcustomary and metric measurement units	J			that both customary and metric need to
measurem		within a given measurement system (e.g., convert 5				be used, and also aligned the problem
ent units		cm to 0.05 m). and Use these conversions in solving				with the fourth grade wording.
	5 MD 2	5.MD.2 Make a line plot to display a data set. of	Change	rewritten/add	#1	Algebra wanted a better foundation for
and		measurements in fractions of a unit (1/2, 1/4, 1/8).	Onlange	ed	<i>TT</i> 1	Mean Absolute Deviation, by building
interpret		2a. Use operations on fractions of a unit (1/2, 1/4, 1/6).		Gu		understanding in fifth grade.
data.		· · · · · · · · · · · · · · · · · · ·				understanding in hitir grade.
		1/8) for this grade to solve problems involving	17			
		5.MD.3 Recognize volume as an attribute of solid	Keep			
measurem		figures and understand concepts of volume				
ent:		measurement.				
understand		3a. A cube with side length 1 unit, called a "unit				
concepts of		cube," is said to have "one cubic unit" of volume, and				
volume and		can be used to measure volume.				
relate		3b. A solid figure which can be packed without gaps				
volume to		or overlaps using n unit cubes is said to have a				
multiplicati		volume of n cubic units.				

Geometric measurem ent: understand	5.MD.4	5.MD.4 Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.	Keep			
Geometric measurem ent: understand concepts of volume and relate volume to multiplicati on and to addition.		5.MD.5 Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume. 5a. Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base. 5b. Represent threefold whole-number products as volumes, e.g., to represent the associative property of multiplication. 5c. Apply the formulas V = I × w × h and V = B × h (where B is the area of the base) for rectangular prisms to find volumes of right rectangular prisms with whole number edge lengths in the context of solving real world and mathematical problems. 5d. Recognize volume as additive. Find volumes of solid figures appraised of two near averlapping right.	change	broken up	#1	we thought "a" needed to be split because the two parts seemed to have a different intent
points on the coordinate plane to solve real- world and mathemati cal problems.		5.G.1 Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond	Keep			
Graph points on the coordinate plane to	5.G.2	5.G.2 Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.	Keep			

Classify	5.G.3	5.G.3 Understand that attributes belonging to a	Keep			
two-		category of two-dimensional figures also belong to all				
dimensiona		subcategories of that category. For example, all				
l figures		rectangles have four right angles and squares are				
Classify	5.G.4	5.G.4 Classify two-dimensional figures in a hierarchy	change	rewritten	#3	To Clarify heirarchy
two-		based on properties. For example, all rectangles				
dimensiona		are parallelograms, because they are all				
l figures		quadrilaterals with two pairs of opposite,				